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1 [Control of cognitive processes during software design: what tools are needed?](#)



R. Guindon, B. Curtis

May 1988

**Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  [pdf\(869.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A verbal protocol study of professional software designers has revealed three design process control strategies. At least one of them, the generation of opportunistic solutions at different levels of detail accompanied by problem domain modeling, had not been observed in previous empirical studies nor had been acknowledged in the software engineering practices. Specific breakdowns (difficulties) were associated with the different design process control strategies. Software ...

2 [Posters: A learning-based coalition formation model for multiagent systems](#)



Leen-Kiat Soh, Xin Li

July 2003

**Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Publisher: ACM Press

Full text available:  [pdf\(578.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a learning-based coalition formation model that forms sub-optimal coalitions among agents to solve real-time constrained allocation problems in a dynamic, uncertain and noisy environment. This model consists of three stages (coalition planning, coalition instantiation and coalition evaluation) and an integrated learning framework. An agent first derives a coalition formation plan via case-based reasoning (CBR). Guided by this plan, the agent instantiates a coalition thr ...


**Keywords:** coalition formation, learning, multiagent systems, negotiation, real time

3 [Book reviews](#)




June 2000 **intelligence**, Volume 11 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(604.19 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

 [html\(58.19 KB\)](#)

4 [A framework for the management of past experiences with time-extended situations](#)




Michel Jaczynski

January 1997

**Proceedings of the sixth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  [pdf\(1.20 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

6 Technical Papers: Building and exploiting ontologies for an automobile project



memory

Joanna Golebiowska, Rose Dieng-Kuntz, Olivier Corby, Didier Mousseau

October 2001

**Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

Publisher: ACM Press

Full text available: pdf(321.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes SAMOVAR (Systems Analysis of Modelling and Validation of Renault Automobiles), aiming at preserving and exploiting the memory of past projects in automobile design (in particular the memory of the problems encountered during a project) so as to exploit them in new projects. SAMOVAR relies on (1) the building of ontologies (in particular, thanks to the use of a linguistic tool on a textual corpus in order to enrich a core ontology in a semi-automatic way), (2) the «semantic» ...

6 Case-based decision support



Albert A. Angehrn, Soumitra Dutta

May 1998

**Communications of the ACM**

Publisher: ACM Press

Full text available: pdf(362.96 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 An organizational learning approach to domain analysis



Scott Henninger, Kris Lappala, Anand Raghavendran

April 1995

**Proceedings of the 17th international conference on Software engineering**

Publisher: ACM Press

Full text available: pdf(1.23 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Adaptive, Confidence-Based Multiagent Negotiation Strategy

Leen-Kiat Soh, Xin Li

July 2004

**Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 3**

Publisher: IEEE Computer Society

Full text available: pdf(180.40 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We propose an adaptive 1-to-many negotiation strategy for multiagent coalition formation in dynamic, uncertain, real-time, and noisy environments. Our strategy focuses on multi-issue negotiations where each issue is a request from the initiating agent to the responding agent. The initiating agent conducts multiple concurrent negotiations with responding agents and in each negotiation it employs (1) a pipelined, one-at-a-time approach, or (2) a confidence-based, packaged approach. In the former, ...

9 Cognitive tools for locating and comprehending software objects for reuse

Gerhard Fischer, Scott Henninger, David Redmiles

May 1991

**Proceedings of the 13th international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.05 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

10 Foundation of a framework to support knowledge management in the field of context-aware and pervasive computing

Philipp Amann, Gerald Quirchmayr

January 2003

**Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 CRPITS '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(761.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we propose a framework to combine Knowledge Management and context-aware and pervasive computing, emphasizing on synchronization and adaptation issues of workflow processes in mobile settings. The key aspect of the proposed framework is to

enable adaptive, two-way interaction between context-aware systems and users in mobile settings. In contrast to existing concepts, we aim at capturing active feedback from users, which should contribute to the *Organizational Memory*, after ...

**Keywords:** WfMS, adaptability, context-awareness, knowledge management, local autonomy, pervasive computing, synchronization

11 Book review: Artificial Intelligence Applications in Manufacturing. Edited by A. Famili. ☐



D. S. Nau, and S. H. Kim (AAAI Press/MIT Press, 1992)

H. van Dyke Parunak

July 1993 **ACM SIGART Bulletin**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(375.05 KB)

Additional Information: [full citation](#), [abstract](#)

This volume grew out of a series of workshops sponsored by the AAAI's Special Interest Group in Manufacturing (SIGMan) at IJCAI-89 and AAAI-90. The editors explicitly target the book "as a reference for senior undergraduate and graduate students." A collection of reports on "AI Applications" for a student audience holds both promise and threat. If it really does relate research-strength technology to industrial-strength problems, it helps prepare students for important industrial contributions. ...

12 An application of rule-based and case-based reasoning within a single legal knowledge-based system ☐



Kamalendu Pal, John A. Campbell

September 1997 **ACM SIGMIS Database**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

A knowledge-based system, Advisory Support for Home Settlement in Divorce (ASHSD), which gives advice on different aspects of matrimonial-home-settlement in English divorce law is described. The system employs two reasoning methods, rule-based reasoning (RBR) and case-based reasoning (CBR) in an integrated framework. It automates the estimation of the relative suitability of these reasoning methods for any given new case. This relative suitability is judged by matching the features of the select ...

**Keywords:** case-based reasoning, knowledge-based system, law, numerical taxonomy, rule-based reasoning

13 Posters: Combining individual and cooperative learning for multi-agent negotiations ☐



Leen-kiat Soh, Juan Luo

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Publisher: ACM Press

Full text available: pdf(1.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a distributed multi-strategy learning methodology based on case-based reasoning in which an agent conducts both individual learning by observing its environment and cooperative learning by interacting with its neighbors. Cooperative learning is generally more expensive than individual learning due to the communication and processing overhead. Thus, our methodology employs a cautious utility-based adaptive mechanism to combine the two, an interaction protocol for solicit ...

**Keywords:** case-based reasoning, cooperative learning, distributed learning, multiagent systems

14 Developing domain knowledge through the reuse of project experiences ☐



Scott Henninger

August 1995 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1995 Symposium on Software reusability SSR '95**, Volume 20 Issue SI

Publisher: ACM Press

Full text available: pdf(1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software development is no longer a homogenous field. Software is being developed for an increasingly diverse set of applications and user populations, each with different

characteristics and development constraints. As a consequence, researchers and practitioners have begun to realize the importance of identifying and understanding the characteristics and special development needs of application domains. This paper presents a method for developing and refining knowledge about application d ...

15 Groups and organizations: Learning to form dynamic committees



Santiago Ontañón, Enric Plaza

July 2003

**Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Publisher: ACM Press

Full text available: pdf(135.42 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Learning agents may improve performance when they cooperate with other agents. Specifically, learning agents forming a committee may outperform individual agents. This "ensemble effect" is well known for multi-classifier systems in Machine Learning. However, multi-classifier systems assume all data is known to all classifiers while we focus on agents that learn from cases (examples) that are owned and stored individually. In this article we focus on the selection of the agents that join a commit ...

**Keywords:** collaboration policies, cooperative CBR, multiagent CBR

16 An intelligent discovery programming system



Haider Ramadhan

April 1992

**Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**

Publisher: ACM Press

Full text available: pdf(1.10 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

17 CODASYS: a consulting tool for novice database designers



Solomon R. Antony, Dinesh Batra

August 2002

**ACM SIGMIS Database**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: pdf(638.44 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper describes the main features of a prototype tool CODASYS (CONceptual modeling tool for DATABASE SYSTEMS), which purports to help novice designers engaged in conceptual data modeling. It is well known that conceptual data modeling is an error-prone process for novice database designers. The tool assists a designer in developing an entity-relationship diagram that can be translated to a normalized relational representation, free of derived dependencies. We first discuss a set of requireme ...

**Keywords:** Consulting system, database design, entity-relationship, expert system, human error, novice designers, patterns, problem solving, relational

18 Session 3C: evolution, adaptation and learning I: A bartering approach to improve multiagent learning



Santiago Ontañón, Enric Plaza

July 2002

**Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1**

Publisher: ACM Press

Full text available: pdf(144.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multiagent systems offer a new paradigm to organize AI Applications. We focus on the application of Case-Based Reasoning to Multiagent systems. CBR offers the individual agents the capability of autonomously learn from experience. In this paper we present a framework for collaboration among agents that use CBR. We present explicit strategies for case bartering that address the issue of agents having a biased view of the data. The outcome of bartering is an improvement of individual agent perform ...

19 An integrated interface for proactive, experience-based design support



David B. Leake, Larry Birnbaum, Kristian Hammond, Cameron Marlow, Hao Yang

January 2001

**Proceedings of the 6th International conference on Intelligent user interfaces**

**Publisher:** ACM Press

Full text available:  pdf(467.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many case-based reasoning systems have been developed to aid designers by providing them with libraries of prior design experiences. Traditionally, these systems are implemented as stand-alone "external memories" for the designer to query manually. This paper presents a contrasting approach that integrates proactive case retrieval into the designer's normal task processes, automatically tailoring information selection and presentation emphasis to fit changing designer needs and attention ...

**Keywords:** case-based reasoning, context, design, intelligent information systems, just-in-time retrieval, knowledge management

20 [Exploiting reusable specifications through analogy](#)



Neil Maiden, Alistair Sutcliffe

April 1992 **Communications of the ACM**, Volume 35 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(1.95 MB)

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**Keywords:** analogies

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Islam, S.; Chowdhury, N.;  
[Power Systems. IEEE Transactions on](#)  
Volume 16, Issue 2, May 2001 Page(s):181 - 187  
Digital Object Identifier 10.1109/59.918284  
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[Data Engineering, 2005. ICDE 2005. Proceedings. 21st International Conference on](#)  
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Digital Object Identifier 10.1109/ICDE.2005.39  
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 Nikolic, N.V.; Trajovic, M.V.; Milicevic, M.M.; Milicev, D.; Marjanovic, D.; Sokic, I.D.; Milutinovic, V.A  
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 Volume 13, Issue 5, Sept.-Oct. 2001 Page(s):793 - 812  
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[AbstractPlus](#) | [References](#) | Full Text: [PDF\(3456 KB\)](#) IEEE JNL  
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- ☐ 5. **An Integrated Rule-based and Case-based Reasoning System for Customer Service Manage**  
 Liping An; Jianyuan Yan; Lingyun Tong;  
e-Business Engineering. 2005. ICEBE 2005. IEEE International Conference on  
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- ☐ 6. **Applying knowledge modelling and case-based reasoning to software reuse**  
Gonzalez, P.A.;  
[Software, IEEE Proceedings- \[see also Software Engineering, IEEE Proceedings\]](#)  
Volume 147, Issue 5, Oct. 2000 Page(s):169 - 177  
Digital Object Identifier 10.1049/ip-sen:20000897  
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Verho, P.; Jarventausta, P.; Kivikko, K.; Pylvanainen, J.; Partanen, J.; Lassila, J.; Honkapuro, S.; K  
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Pai, G.J.; Dugan, J.B.;  
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12-15 Nov. 2002 Page(s):243 - 254  
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- ☐ 9. **Reliability analysis of Torino Sud district heating system**  
Ponta, A.; Tripodi, C.; Bertocci, S.;  
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18-21 Jan. 1999 Page(s):336 - 342  
Digital Object Identifier 10.1109/RAMS.1999.744141  
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[Evolutionary Computation, IEEE Transactions on](#)  
Volume 8, Issue 4, Aug. 2004 Page(s):316 - 328  
Digital Object Identifier 10.1109/TEVC.2004.823466  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1048 KB\)](#) IEEE JNL  
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Bing Liu;  
[Systems, Man and Cybernetics, Part A, IEEE Transactions on](#)  
Volume 27, Issue 4, July 1997 Page(s):436 - 448  
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- ☐ 12. **Design support based on projection of information across the product-development life cycle based reasoning**  
Irgens, C.S.;  
[Science, Measurement and Technology, IEEE Proceedings-](#)  
Volume 142, Issue 5, Sept. 1995 Page(s):345 - 349  
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- ☐ 13. **MACE-SCM: An Effective Supply Chain Decision Making Approach based on Multi-Agent and Reasoning**



Ohbyung Kwon; Ghiyoung Im; Kun Chang Lee;  
System Sciences, 2005. HICSS '05. Proceedings of the 38th Annual Hawaii International Conferen  
03-06 Jan. 2005 Page(s):82b - 82b  
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Software, IEEE Proceedings- [see also Software Engineering, IEEE Proceedings]  
Volume 145, Issue 4, Aug. 1998 Page(s):119 - 127  
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Electric Utility Deregulation and Restructuring and Power Technologies, 2000. Proceedings. DRPT Conference on  
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Dependable and Secure Computing, IEEE Transactions on  
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Hoffmeister, J.A.;  
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- ☐ 19. SANet: a service-agent network for call-center scheduling  
Qiang Yang; Yong Wang; Zhong Zhang;  
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Volume 33, Issue 3, May 2003 Page(s):396 - 406  
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- ☐ 20. Reliability and availability assessment of storage area network extension solutions  
Xiangqun Qiu; Telikepalli, R.; Drwiega, T.; Yan, J.;  
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Volume 43, Issue 3, March 2005 Page(s):80 - 85  
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Louis, S.J.;  
[Evolutionary Computation, 2003. CEC '03. The 2003 Congress on](#)  
Volume 3, 8-12 Dec. 2003 Page(s):2118 - 2125 Vol.3  
Digital Object Identifier 10.1109/CEC.2003.1299934

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**22. A framework for case-based fuzzy multicriteria decision support for tropical cyclone forecast**

San Pedro, J.; Burstein, F.;  
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6-9 Jan 2003 Page(s):8 pp.  
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**23. Test-execution-based reliability measurement and modeling for large commercial software**

Tian, J.; Peng Lu; Palma, J.;  
[Software Engineering, IEEE Transactions on](#)  
Volume 21, Issue 5, May 1995 Page(s):405 - 414  
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**24. An experience-based assembly sequence planner for mechanical assemblies**

Swaminathan, A.; Barber, K.S.;  
[Robotics and Automation, IEEE Transactions on](#)  
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**25. Design of a RFID-based resource management system for warehouse operation**

Chow, H.K.H.; Choy, K.L.; Lee, W.B.;  
[Industrial Informatics, 2005. INDIN '05. 2005 3rd IEEE International Conference on](#)  
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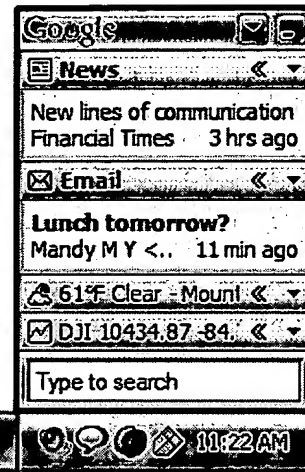
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